

SEUNG B. LEE

seung.lee@pepperdine.edu • www.seunglee.com • ORCID: 0000-0003-0149-0681

EDUCATION

- 2020 **Pepperdine University**, Graduate School of Education and Psychology
Ph.D., Global Leadership and Change
- Dissertation Title: “Interaction, collaboration and content creation in informal online learning environments: Multidimensional analyses of longitudinal data from the Scratch community”
- 2008 **Columbia University**, School of International and Public Affairs
Master of International Affairs
- Concentration: Economic and Political Development
- 2000 **University of California, Berkeley**, College of Engineering
B.S., Mechanical Engineering

PROFESSIONAL EXPERIENCE

- 2021 – current **Assistant Professor of Education** (tenure-track)
Graduate School of Education and Psychology, Pepperdine University
- 2021 **Postdoctoral Research Fellow**
Graduate School of Education and Psychology, Pepperdine University
- Project: Peering a generation into the future: NSF's Young Scholars Program and the nation's STEM workforce – Funded by the National Science Foundation (Eric Hamilton, PI)
- 2020 – 2021 **Adjunct Instructor**
Graduate School of Education and Psychology, Pepperdine University
- 2017 – 2020 **Graduate Research Assistant**
Graduate School of Education and Psychology, Pepperdine University
- 2019 **Research Consultant**
Cross-disciplinary Research on Equitable Advanced Technology for Education (CREATE), Northern Illinois University
- 2017 – 2018 **Program Advisor**
Nonprofit Start-up Program, Daum Foundation, Korea
- 2012 – 2016 **Director of Education Initiatives**
Asan Nanum Foundation, Korea
- 2011 – 2012 **Researcher & Head of Public and Media Relations**
IOM Migration Research and Training Centre, Korea
- 2008 – 2011 **Programme Officer, Social Policy and Economic Analyses**
Division of Policy and Practice, UNICEF
- 2000 – 2002 **Math Resource Teacher**
Peace Corps, Nepal

HONORS & AWARDS

- Howard A. White Award for Teaching Excellence, Pepperdine University. 2024.

- Learning Analytics in STEM Education Research (LASER) Institute Scholar Selection, North Carolina State University, 2023.
- Doctoral Consortium Selection, First International Conference on Quantitative Ethnography, 2019.
- Randy Clark Endowed Scholarship, Graduate School of Education and Psychology, Pepperdine University, 2017-2018.
- Leous-Parry Award for Progressive Sustainability, School of International and Public Affairs, Columbia University, 2008.

GRANTS

National Science Foundation, Advancing Informal STEM Learning (2022 – 2026)

Title: Broadening participation, building STEM competencies, and strengthening identity formation through cross-cultural and international collaboration in project-based learning

Role: Co-Principal Investigator (Eric Hamilton, PI)

Amount: \$2,000,000

Pepperdine University, Community-Based Research Program (2024 – 2025)

Title: Engaging the craniofacial disability community with LifePlot (An innovative storytelling application)

Role: Co-Principal Investigator (with Jasmine Gray & Samaa Haniya)

Amount: \$15,000

Pepperdine University, Provost Grant for Faculty Scholarship (2022)

Title: Advancing quantitative ethnography research at Pepperdine University

Role: Principal Investigator

Amount: \$1,500

Pepperdine University, Provost Grant for Ph.D. Research (2019)

Title: Examining collaborative creativity in informal global online learning environments

Role: Principal Investigator

Amount: \$1,000

PUBLICATIONS

REFEREED JOURNAL ARTICLES

Espino, D. P., **Lee, S. B.**, Van Tress, L., Baker, T. T., & Hamilton, E. R. (2020). Analysis of US, Kenyan, and Finnish discourse patterns in a cross-cultural digital makerspace learning community through the IBE-UNESCO global competences framework. *Research in Social Sciences and Technology*, 5(1), 86-100.

Calhoun, D. & **Lee, S. B.** (2019). Computer usage and cognitive capability of older adults: Analysis of data from the Health and Retirement Study. *Educational Gerontology*, 45(1), 22-33.

REFEREED CONFERENCE PROCEEDINGS

Lee, S. B., Espino, D.P., Hamilton, E. (2024). Ordered network analysis of prompted student discourse in a collaborative learning context. In: Y. J. Kim & Z. Swiecki (Eds.) *Advances in Quantitative Ethnography: Proceedings of the Sixth International Conference on Quantitative Ethnography* (pp. 95-103). Philadelphia, PA.

Espino, D. P., Hamilton, E., Lux, K., **Lee, S. B.** (2023). From we to me: Moving towards an examination of self identity in an online, global, collaborative, learning environment. In: G. Arastoopour Irgens & S. Knight (Eds.) *Advances in Quantitative Ethnography: Proceedings of the Fifth International Conference on Quantitative Ethnography* (pp. 112-124). Melbourne, Australia.

Lee, S. B., Lux, K., Molloy, J., Charles, R., & Hamilton, E. R. (2023). STEM enrichment and career development: Analysis of NSF's Young Scholars Program. In P. Blikstein, J. Van Aalst, R. Kizito, & K. Brennan (Eds.),

Proceedings of the 17th International Conference of the Learning Sciences - ICLS 2023 (pp. 1541-1544). Montreal, Canada.

Lee, S. B., Charles, R., Jokodola, A., Lux, K., Molloy, J., Hurford, A., & Hamilton, E. R. (2022). Promoting STEM careers: Preliminary analysis of the Young Scholars Program. In C. Chinn, E. Tan, C. Chan, & Y. Kali (Eds.), *Proceedings of the 16th International Conference of the Learning Sciences - ICLS 2022* (pp. 1673-1676). Hiroshima, Japan.

Espino, D. P., **Lee, S. B.**, Hokama, M., & Hamilton, E. R. (2022). Examining prompted discourse patterns in an informal, online, global collaborative learning environment. In A. Weinberger, W. Chen, D. Hernández-Leo, & B. Chen (Eds.), *Proceedings of the 15th International Conference on Computer-Supported Collaborative Learning - CSCL 2022* (pp. 179-186). Hiroshima, Japan.

*** Nominated for the Best Paper Award**

Hamilton, E. R., **Lee, S. B.**, Charles, R., & Molloy, J. (2022). Peering a generation into the future: Assessing workforce outcomes in the 2020s from an intervention in the 1990s. In B. Wasson & S. Zörgő (Eds.), *Advances in Quantitative Ethnography: Proceedings of the Third International Conference on Quantitative Ethnography* (pp. 163-175). Malibu, CA.

*** Nominated for the Best Paper Award**

Wright, T., Oliveira, L., Espino, D. P., **Lee, S. B.**, & Hamilton, E. R. (2022). Getting there together: Examining patterns of a long-term collaboration in a virtual STEM makerspace. In S. Zörgő & B. Wasson (Eds.), *Advances in Quantitative Ethnography: Proceedings of the Third International Conference on Quantitative Ethnography* (pp. 334-345). Malibu, CA.

Lee, S. B., Gui, X., & Hamilton, E. R. (2020). Application of AutoML in the automated coding of educational discourse data. In M. Gresalfi, & I. S. Horn (Eds.), *Proceedings of the 14th International Conference of the Learning Sciences - ICLS 2020* (pp. 2597-2600). Nashville, TN.

Lee, S. B., Gui, X., Manquen, M., & Hamilton, E. R. (2019). Use of training, validation, and test sets for developing automated classifiers in quantitative ethnography. In B. Eagan, M. Misfeldt, & A. Siebert-Evenstone (Eds.), *Advances in Quantitative Ethnography: Proceedings of the First International Conference on Quantitative Ethnography* (pp. 117-127). Madison, WI.

Espino, D. P., **Lee, S. B.**, Van Tress, L., & Hamilton, E. R. (2019). Examining the dynamic of participation level on group contribution in a global, STEM-focused digital makerspace community. In B. Eagan, M. Misfeldt, & A. Siebert-Evenstone (Eds.), *Advances in Quantitative Ethnography: Proceedings of the First International Conference on Quantitative Ethnography* (pp. 55-65). Madison, WI.

Espino, D. P., **Lee, S. B.**, Eagan, B., & Hamilton, E. R. (2019). An initial look at the developing culture of online global meet-ups in establishing a collaborative, STEM media-making community. In K. Lund, G. Niccolai, E. Lavoué, C. Hmelo-Silver, G. Gweon, & M. Baker (Eds.), *Proceedings of the 13th International Conference on Computer Supported Collaborative Learning - CSCL 2019* (pp. 608-611). Lyon, France.

Espino, D. P., **Lee, S. B.**, Van Tress, L., & Hamilton, E. R. (2019). Application of the IBE-UNESCO global competences framework in assessing STEM-focused, global collaborative learning within a digital makerspace environment. In K. Lund, G. Niccolai, E. Lavoué, C. Hmelo-Silver, G. Gweon, & M. Baker (Eds.), *Proceedings of the 13th International Conference on Computer Supported Collaborative Learning - CSCL 2019* (pp. 612-615). Lyon, France.

EDITED PROCEEDINGS VOLUME

Ruis, A. R., & **Lee, S. B.** (Eds.). (2021). *Advances in quantitative ethnography. ICQE 2020. Communications in Computer and Information Science, Vol 1312*. Springer, Cham. https://doi.org/10.1007/978-3-030-67788-6_1

Ruis, A. R., & **Lee, S. B.** (Eds.). (2021). *Second International Conference on Quantitative Ethnography: Conference Proceedings Supplement*. International Society for Quantitative Ethnography.

SELECT PRESENTATIONS, POSTERS & WORKSHOPS

PAPER PRESENTATIONS

- Lee, S. B.**, Espino, D. P., Van Tress, L. & Hamilton, E. R. (2020, April). Examining connections between positive affect and discourse in a global, STEM-focused digital makerspace community. Paper accepted for presentation at the 2020 Annual Meeting of the American Educational Research Association (AERA). Conference cancelled.
- Lee, S. B.**, Espino, D. P., & Hamilton, E. R. (2020, April). Initial examination of roles in online meet-ups in a global collaborative STEM-focused, digital makerspace community. Paper accepted for presentation at the 2020 Annual Meeting of the American Educational Research Association (AERA). Conference cancelled.
- Lee, S. B.** (2019, July). Examining collaborative creativity in informal global online learning environments through epistemic network analysis. Presentation at the 2nd Southern Oregon University (SOU) Creativity Conference, Ashland, OR.
- Lee, S. B.**, Espino, D. P., & Hamilton, E. R. (2019, April). Exploratory research application of epistemic network analysis for examining international virtual collaborative STEM learning. Paper presentation at the 2019 Annual Meeting of the American Educational Research Association (AERA). Toronto, Canada.

POSTER PRESENTATIONS

- Hamilton, E. R., Espino, D. P., **Lee, S. B.**, & Lux, K. (2024). Adolescent identity as a complex adaptive system: Implications for informal precollege STEM education. Poster presentation at the 2024 Annual Meeting of the International Society of the Learning Sciences (ISLS), Buffalo, NY.
- Lux, K., **Lee, S. B.**, Molloy, J., Jokodola, A., & Charles, R. (2023). STEM career choice: Middle school vs high school engagement in an informal learning environment. Poster presentation at the 2023 Annual Meeting of the American Educational Research Association (AERA), Chicago, IL.
- Charles, R., Jokodola, A., **Lee, S. B.**, Molloy, J., Lux, K., & Hamilton, E. R. (2023). Overarching principles of social cognitive career theory, self-determination theory, and interest-driven career theory through the lens of the Young Scholars Program. Poster presentation at the 2023 Annual Meeting of the American Educational Research Association (AERA), Chicago, IL.
- Espino, D. P., **Lee, S. B.**, Hokama, M., & Hamilton, E. (2021). Initial analysis of prompted discourse patterns in an informal, online, global collaborative learning environment. Poster presentation at the 2021 Annual Meeting of the International Society of the Learning Sciences (ISLS), Bochum, Germany.
- Eagan, B., **Lee, S. B.**, Lux, K., & Hamilton, E. R. (2019, April). Measuring connections between affect and motivation in informal STEM learning. Poster presentation at the 2019 Annual Meeting of the American Educational Research Association (AERA), Toronto, Canada.

WORKSHOP FACILITATION

- Choi, J. & **Lee, S. B.** (2022, October). Introduction to automated coding in quantitative ethnography. Workshop at the 2022 International Conference on Quantitative Ethnography, Copenhagen, Denmark.
- Siebert-Evenstone, A., **Lee, S. B.**, & Eagan, B. (2021, February). Introduction to nCoder. Workshop at the Second International Conference on Quantitative Ethnography, Virtual Conference.
- Siebert-Evenstone, A. & **Lee, S. B.** (2019, October). Introduction to automated coding and nCoder. Workshop at the First International Conference on Quantitative Ethnography, Madison, WI.
- Siebert-Evenstone, A., Eagan, B., Swiecki, Z., **Lee, S. B.** & Hamilton, E. R. (2019, June). Creating, refining, and validating automated discourse codes: An introduction to nCoder and rho. Workshop at the 13th International Conference on Computer Supported Collaborative Learning, Lyon, France.

CAMPUS PRESENTATIONS

- Hamilton, E., **Lee, S. B.**, & Espino, D. P. (2023, June). Broadening participation, building STEM competencies/ cross-cultural and international collaboration in project-based learning. Presentation at the 2023 Pepperdine GSEP Research Symposium, Los Angeles, CA.
- Calhoun, D., & **Lee, S. B.** (2019, May). Envisioning the future role of technology for older Americans: An empirical analysis of data from the Health and Retirement Study. Presentation at the 2019 Pepperdine GSEP Research and Project Symposium, Malibu, CA.
- Lee, S. B.** (2018, June). Quantitative ethnography and use of epistemic network analysis (ENA) to study international collaboration in STEM learning. Presentation at the 2018 Pepperdine GSEP Research and Project Symposium, Malibu, CA.

TEACHING & ADVISING

PEPPERDINE UNIVERSITY COURSES**Doctoral-level Courses**

- Inferential Statistics (Fall 2020, 2021, 2022, 2024)
- Quantitative Research Methods and Descriptive Statistics (Summer 2021, 2022)
- Research Design and Analysis (Summer 2022; Spring 2023, 2024)
- Qualitative Research and Analysis (Fall 2021, 2022, 2023; Spring 2025)
- Quantitative Ethnography (Fall 2022, 2023; Summer 2023)
- Advanced Multivariate Analysis (Spring 2023, 2024)
- Disseminating Knowledge and Publishing (Fall 2020; Spring 2021)
- Global Policy Experience (Summer 2023)
- Qualifying Examination Seminar (Spring 2024, 2025; Summer 2024)

Masters-level Courses

- Program Design and Evaluation (Spring 2022)
- Applied Analytics and Data Visualization (Summer 2021, 2022; Fall 2022, 2023, 2024; Spring 2024)

PEPPERDINE UNIVERSITY DISSERTATION CHAIRING**PhD Students**

- Julia Anzano (ongoing)
- Hyejin Anna Kim (ongoing)
- Laura Heaton (ongoing)
- Alvin Suh (ongoing)

EdD Students

- Jade Pratt (ongoing)
- Elias Saade (ongoing)
- Shawn Purcell (ongoing)

PEPPERDINE UNIVERSITY DISSERTATION COMMITTEE SERVICE**PhD Students**

- Matthew Wilkens. (2023). The Meta-Leadership Inventory: Developing a valid and reliable instrument for international school leaders.

- Stephanie Wanza. (2023). Leadership in social service non-profit organizations: An interpretative phenomenological analysis of high attrition levels and proposals for change.
- Tram Van. (2024). Educators' experiences and perspectives on teaching sexuality education to high school students in Vietnam.
- Haille Trimboli. (2024). The examination of workplace well-being in the context of conversations on artificial intelligence.
- Liane Weintraub. (2024). Polarization and civil discourse in America: A case study of respectful dialogue as a moderating influence on Generation Z.
- Marguerite Williamson (ongoing)
- Jai Oni Dane (ongoing)
- Patricia Camarillo (ongoing)

EdD Students

- Shannon Mumolo. (2023). Marketization without marginalization? Approaches to school integration in an early college magnet.
- Ihsan Bayaa. (2023). An examination of leisure tourism's impact on culture in Saudi Arabia.
- Yujung Seol. (2023). Trust and psychological empowerment in global virtual teams: Quantitative ethnography research.
- Brian Park. (2023). Perceptions of college/university students on high school science and STEM courses.
- Breanna Webb. (2023). Obstacles and supports experienced by foster youth in higher education: Ventura County Community College.
- Sohee Linda Lee (ongoing)
- Abdulla Kamali (ongoing)

UNIVERSITY SERVICE

- Member, University Planning Committee, Pepperdine University, Fall 2024.
- Chair, Research Committee, Graduate School of Education & Psychology (GSEP), Pepperdine University, 2023-2025.
- Member, Rank, Tenure and Promotion (RTP) Committee, GSEP, Pepperdine University, 2023-2024.
- Member, Faculty Handbook Committee, GSEP, Pepperdine University, 2022-2024.
- Member, Institutional Review Board (IRB) Committee, GSEP, Pepperdine University, 2022-2024.

PROFESSIONAL SERVICE

- Co-editor, Special issue on quantitative ethnography in education research and evaluation in low- and middle-income nations, *Journal of International Cooperation in Education (JICE)*, 2023-2025.
- Program Committee Member, Sixth International Conference on Quantitative Ethnography, November 2024.
- Peer Reviewer, 2024 Annual Meeting of the International Society of the Learning Sciences.
- Peer Reviewer, 2023 Annual Meeting of the International Society of the Learning Sciences.
- Peer Reviewer, 2022 Annual Meeting of the International Society of the Learning Sciences.
- Peer Reviewer, 2022 International Conference on Quantitative Ethnography.
- Program Committee Member, Third International Conference on Quantitative Ethnography, November 2021.
- Program Committee Co-Chair, Second International Conference on Quantitative Ethnography, February 2021.

PROFESSIONAL AFFILIATIONS

- Member, International Society for Quantitative Ethnography (ISQE)
- Member, American Educational Research Association (AERA)
- Member, International Society of the Learning Sciences (ISLS)